

WHAT IS CLAIMED IS:

1. A method of performing an authentication on an identity module card by an electronic communication device, which is applied to an electronic communication device being installed with an identification software provided by a telecommunication service provider, enabling the electronic communication device to proceed with the procedure comprising the steps of:

checking if a subscriber identity module card is installed in the said electronic communication device;

showing a screen on a display of the said electronic communication device requesting a user to input an authentication data provided by the said telecommunication service provider for comparing with an identification number stored in the said subscriber identity module card;

determining whether the authentication data being inputted is identical to the identification number stored in the said subscriber identity module card, if yes, continuing the booting procedure.

2. The method of claim 1, wherein said identification software stops the booting procedure when the authentication data being inputted isn't identical to the identification number stored in the said subscriber identity module card.

3. The method of claim 1, wherein said authentication data is a password having at least one character.

4. The method of claim 1, wherein said electronic communication device further comprises an encryption mechanism, so that after said electronic communication device starts executing said identification software, the said encryption mechanism encrypts said authentication data inputted into the electronic communication device and generates an identification number identical to the one stored in said subscriber identity module card.

5. The method of claim 1, wherein said identification software further

comprises a storage record and an authentication record, the storage record is used to record whether or not a subscriber identity module card has been installed in the said electronic communication device, and the authentication record is used to store the identification number of a subscriber module card installed in the electronic communication device, enabling the electronic communication device to proceed with the procedure comprising the steps of:

checking the storage record stored at the previous shutdown whether or not a subscriber identity module card is installed in the electronic communication device; if yes, then reading the identification number of the subscriber identity module card previously stored in the storage record;

reading the identification number of the subscriber identity module card currently installed in the electronic communication device and comparing the same with the identification number previously stored in the storage record and determining whether they are identical; if yes, then continuing to execute the booting procedure.

6. The method of claim 5, wherein said electronic communication device stops booting if there isn't a subscriber identity module card is installed in the electronic communication device.

7. The method of claim 5, wherein when the identification number of the subscriber identity module card currently installed in the electronic communication device is not identical to the identification number stored in the storage record, further comprises the steps of:

recording the identification number of the current subscriber identity module card on the checking record;

showing a screen on a display of the electronic communication device requesting a user to input the authentication data provided by the telecommunication service provider;

determining whether or not the authentication data being inputted is identical to the one stored in the storage record; if yes, then continuing to execute the booting procedure.

- 5 8. The method of claim 5, wherein said electronic communication device stops booting if the authentication data being inputted isn't identical to the one stored in the storage record.